AMENDMENTS TO THE CLAIMS

In the claims:

Claims 1-14 (canceled)

- 15. (currently amended): A process to produce a purified carboxylic acid product composition said process comprising:
 - (a) optionally removing impurities from a crude carboxylic acid slurry composition in an optional solid liquid displacement zone to form a slurry productcomposition;
 - (b) oxidizing said slurry product composition at a temperature of about 190°C to about 280°C or said crude carboxylic acid slurry in a staged oxidation zone to form a staged oxidation product composition;
 - (c) crystallizing said staged oxidation product composition in a crystallization zone to form a crystallized product composition;
 - (d) removing in a <u>subsequent</u> solid liquid displacement zone impurities from said crystallized <u>productcomposition</u> to form a purified carboxylic acid slurry <u>composition</u>; wherein said impurities comprise 4-carboxybenzaldehyde, trimellitic acid, or 2,6-dicarboxyfluorenone; wherein said <u>subsequent</u> solid liquid displacement zone comprises a solid liquid separator that is operated at a temperature between 110°C and 200°C;
 - (e) cooling said purified carboxylic acid slurry <u>composition</u> in a cooling zone to form a cooled purified carboxylic acid slurry <u>composition</u>; and
 - (f) filtering and drying said cooled purified carboxylic slurry composition in a filtration and drying zone to remove a portion of the solvent from said cooled purified carboxylic acid slurry composition to produce said purified carboxylic acid product composition.
 - 16. (currently amended): A process to produce a purified carboxylic acid product composition said process comprising:

(a) optionally, removing impurities from a crude carboxylic acid slurry composition in an optional solid liquid displacement zone to form a slurry product composition;

- (b) oxidizing said slurry product composition at a temperature of about 190°C to about 280 °C or crude carboxylic acid slurry in a staged oxidation zone to form a staged oxidation product composition;
- (c) removing in a <u>subsequent</u> solid liquid displacement zone impurities from said staged oxidation <u>productcomposition</u> to <u>forrom</u> a purified staged oxidation <u>productcomposition</u>; wherein said impurities comprise 4-carboxybenzaldehyde, trimellitic acid, or 2,6-dicarboxyfluorenone; <u>and</u> wherein said <u>subsequent</u> solid liquid displacement zone comprises a solid liquid separator that is operated at a temperature between 110°C and 200°C;
- (d) crystallizing in a crystallization zone said purified staged oxidation product composition to form a purified carboxylic acid slurry composition;
- (e) cooling said purified carboxylic acid slurry <u>composition</u> in a cooling zone to form a cooled purified carboxylic acid slurry <u>composition</u>; and
- (f) filtering and drying said cooled purified carboxylic slurry composition in a filtration and drying zone to remove a portion of the solvent from said cooled <u>purified</u> carboxylic acid slurry composition to produce said purified carboxylic acid <u>product composition</u>.
- 17. (canceled)
- 18. (canceled)
- 19. (original): The process according to claim 15 or 16 wherein said solid liquid displacement zone comprises a solid liquid separator selected from the group consisting of a belt filter, a rotary vacuum filter and a rotary disk pack centrifuge.
- 20. (currently amended): The process according to claim 15 or 16 wherein said purified <u>carboxylic acid</u> slurry <u>composition</u> is formed without a process for separating impurities from oxidation solvent or hydrogenation step.
- 21. (currently amended): The process according to claim 15 or 16 wherein said purified carboxylic acid slurry composition has a b* of less than about 3.5.

- 22. (canceled)
- 23. (currently amended): A process to produce a purified carboxylic acid productcomposition comprising:
 - (a) removing in an optional solid liquid displacement zone impurities from a crude carboxylic acid slurry composition to form a slurry product composition; wherein said crude carboxylic acid slurry composition comprises terephthalic acid, catalyst, acetic acid, and impurities that is withdrawn at a temperature between about 140°C and about 170°C from the oxidation of paraxylene in a primary oxidation zone; wherein said catalyst comprises cobalt, manganese or bromine compounds;
 - (b) oxidizing said slurry product composition in a staged oxidation zone to form a staged oxidation product composition; wherein said oxidizing is conducted at a temperature between about 190°C to about 280 °C; and wherein said oxidizing is at a higher temperature in said staged oxidation zone than in said primary oxidation zone;
 - (c) crystallizing said staged oxidation product composition in a crystallization zone to form a crystallized product composition; and
 - (d) removing in a <u>subsequent</u> solid liquid displacement zone impurities from said crystallized <u>productcomposition</u> to form said purified carboxylic acid slurry <u>composition</u>; wherein said <u>subsequent</u> solid liquid displacement zone comprises a solid liquid separator that is operated at a temperature between about 110 °C to about 200 °C; <u>and</u> wherein said impurities comprise 4-carboxybenzaldehyde, trimellitic acid, or 2,6-dicarboxyfluorenone;
 - (e) cooling said purified carboxylic acid slurry composition in a cooling zone to form a cooled purified carboxylic acid slurry composition; and
 - (f) filtering and drying said cooled purified carboxylic slurry composition in a filtration and drying zone to remove a portion of the solvent from said cooled <u>purified</u> carboxylic acid slurry composition to produce said purified carboxylic acid <u>product</u>composition.

24. (currently amended): The process according to claims 15, 16, or 23 further comprising decolorizing in a reactor zone said purified carboxylic acid slurry composition or a carboxylic acid that has been esterified.

- 25. (currently amended): The process according to claim 24 wherein said decolorizing is accomplished by reacting said <u>purified crude</u> carboxylic acid <u>slurry composition solution</u> with hydrogen in the presence of a catalyst in a reactor zone to produce a decolorized carboxylic acid solution; wherein said catalyst comprises a group VIII metal.
- 26. (currently amended): The process according to claims 15, 16 or 23 wherein said solid liquid displacement zone comprises a solid liquid separator that is operated at a temperature between about 50 °C to about 200 °C.
- 27. (new): A process to produce a purified carboxylic acid composition said process comprising:
 - (a) oxidizing an aromatic feedstock at a temperature of about 120°C to about 200°C in a primary oxidation zone to form a crude carboxylic acid slurry composition;
 - (b) removing impurities from said crude carboxylic acid slurry composition in an solid liquid displacement zone to form a slurry composition;
 - (c) oxidizing said slurry composition in a staged oxidation zone to form a staged oxidation composition;
 - (d) crystallizing said staged oxidation composition in a crystallization zone to form a crystallized composition;
 - (e) removing in a subsequent solid liquid displacement zone impurities from said crystallized composition to form a purified carboxylic acid slurry composition; wherein said impurities comprise 4-carboxybenzaldehyde, trimellitic acid, or 2,6-dicarboxyfluorenone; wherein said subsequent solid liquid displacement zone comprises a solid liquid separator that is operated at a temperature between 110°C and 200°C;
 - (f) cooling said purified carboxylic acid slurry composition in a cooling zone to form a cooled purified carboxylic acid slurry composition; and

(g) filtering and drying said cooled purified carboxylic slurry composition in a filtration and drying zone to remove a portion of the solvent from said cooled purified carboxylic acid slurry composition to produce said purified carboxylic acid composition.

- 28. (new): A process to produce a purified carboxylic acid composition said process comprising:
 - (a) oxidizing an aromatic feedstock at a temperature of about 120°C to about 200°C in a primary oxidation zone to form a crude carboxylic acid slurry composition;
 - (b) removing impurities form said crude carboxylic acid slurry composition in an solid liquid displacement zone to form a slurry composition;
 - (c) oxidizing said slurry composition at a temperature of about 190°C to about 280 °C in a staged oxidation zone to form a staged oxidation composition;
 - (d) removing in a solid liquid displacement zone impurities from said staged oxidation composition to from a purified staged oxidation composition; wherein said impurities comprise 4-carboxybenzaldehyde, trimellitic acid, or 2,6-dicarboxyfluorenone; wherein said subsequent solid liquid displacement zone comprises a solid liquid separator that is operated at a temperature between 110°C and 200°C;
 - (e) crystallizing in a crystallization zone said purified staged oxidation composition to form a purified carboxylic acid slurry composition;
 - (f) cooling said purified carboxylic acid slurry composition in a cooling zone to form a cooled purified carboxylic acid slurry composition; and
 - (g) filtering and drying said cooled purified carboxylic slurry composition in a filtration and drying zone to remove a portion of the solvent from said cooled purified carboxylic acid slurry composition to produce said purified carboxylic acid composition.
- 29. (new): The process according to claim 27 or 28 wherein said solid liquid displacement zone comprises a solid liquid separator selected from the group consisting of a belt filter, a rotary vacuum filter and a rotary disk pack centrifuge.

30. (new): The process according to claim 27 or 28 wherein said purified carboxylic acid slurry composition is formed without a process for separating impurities from oxidation solvent or hydrogenation step.

31. (new): The process according to claim 27 or 28 wherein said purified carboxylic acid slurry composition has a b* of less than about 3.5.